

Claims:

1. (Previously presented) A system for the delivery of a respirable medicament and the remote assessment of a patient's respiratory condition comprising:

a network computer system having specifiable network addresses;

remote from said network computer system, a patient electronic data collection system for locally collecting data relevant to the patient's respiratory condition responsive to a sensor of the system which is able to sense the breath of a patient and communicate breath data to the patient electronic data collection system;

a communicator for wirelessly communicating with an endpoint to said network computer system to enable two-way transfer of data between the network computer system and the patient electronic data collection system including transfer of said data relevant to the patient's respiratory condition with a patient identifier to the network computer system; and

a secure access gateway permitting access to the data relevant to the patient's respiratory condition on the network computer system in response to a user authorization command;

wherein said patient electronic data collection system forms part of a medicament delivery system that is arranged to provide respirable delivery of a dose of medicament to the patient, that is arranged to vary the dose of medicament deliverable to the patient in response to data received from the network computer system, that is under the control of the patient, that includes the sensor and that is arranged to collect the data relevant to the patient's respiratory condition when the patient uses the medicament delivery system.

2-11. (Cancelled)

12. (Previously presented) A system according to Claim 1, wherein the secure access gateway is password protected.

13. (Previously presented) A system according to Claim 1, wherein the secure access gateway enables different levels of access authorization to the data to be assigned to different authorized users.

14. (Cancelled)

15. (Previously presented) A system according to Claim 1, wherein information from a patient-remote datasource is made available to the network computer system.

16. (Original) A system according to claim 15, wherein the patient-remote datasource comprises data relating to ambient environmental conditions.

17. (Original) A system according to claim 15, wherein the patient-remote datasource comprises a database of prescribable medicaments.

18. (Previously presented) A system according to Claim 1, wherein the patient electronic data collection system further comprises a patient electronic data management system comprising

a memory for storage of data;

a microprocessor for performing operations on said data; and

a transmitter for transmitting a signal relating to the data or the outcome of an operation on the data.

19. (Original) A system according to claim 18, wherein said patient electronic data management system additionally comprises a geographic positioning system.

20. (Previously presented) A system according to Claim 18, wherein the communicator enables two-way transfer of data between the network computer system and the patient electronic data management system.

21-23. (Cancelled)

24. (Previously presented) A system according to Claim 1, wherein the communicator communicates directly with the network computer system.

25. (Cancelled)

26. (Previously presented) A system according to Claim 1, wherein the communicator communicates with the network computer system via a second communications device having telecommunications capability.

27. (Original) A system according to claim 26, wherein the telecommunications device comprises a cellular phone or pager.
28. (Previously presented) A system according to Claim 26, wherein the communicator communicates with the second communications device using spread spectrum radiofrequency signals.
29. (Previously presented) A system according to Claim 1, wherein the network computer system comprises a public access network computer system.
30. (Previously presented) A system according to Claim 1, wherein the network computer system comprises a private access network computer system.
31. (Previously presented) A system according to Claim 1, wherein the network computer system has a patient-specific network address which is selected from the group consisting of a web-site address, an e-mail address and a file transfer protocol address.
32. (Previously presented) A system according to Claim 18, wherein the patient electronic data management system additionally comprises a data input system for patient input of data to the electronic data management system.

33. (Cancelled)

34. (Previously presented) A system according to Claim 18, additionally comprising a display for display of data from the patient electronic data management system to the patient.

35. (Cancelled)

36. (Previously presented) A system according to claim 1, wherein said sensor comprises a breath-movable element which is movable in response to the breath of a patient.

37. (Original) A system according to claim 36, wherein said breath-movable element is selected from the group consisting of a vane, a sail, a piston and an impeller.

38. (Previously presented) A system according to claim 1, wherein the sensor comprises a pressure sensor for sensing the pressure profile associated with the breath of a user.

39. (Previously presented) A system according to claim 1, wherein the sensor comprises an airflow sensor for sensing the airflow profile associated with the breath of a user.

40. (Previously presented) A system according to claim 1, wherein the sensor comprises a temperature sensor for sensing the temperature profile associated with the breath of a user.

41. (Previously presented) A system according to claim 1, wherein the sensor comprises a moisture sensor for sensing the moisture profile associated with the breath of a user.

42. (Previously presented) A system according to claim 1, wherein the sensor comprises a gas sensor for sensing the oxygen or carbon dioxide profile associated with the breath of a user.

43. (Previously presented) A system according to claim 1, wherein said breath data includes breath cycle data.

44. (Previously presented) A system according to claim 1, wherein said breath data includes peak flow data.

45-46. (Cancelled)

47. (Previously presented) A method for delivery of respirable medicament and remotely assessing a patient's respiratory condition comprising the steps of:

providing a patient with a medicament delivery system that provides respirable delivery of a dose of medicament to the patient, that is arranged to vary the dose of medicament deliverable to the patient, that is under the control of the patient, and that comprises (i) a sensor to sense the breath of a patient when the patient uses the medicament delivery system, and (ii) a patient electronic data collection system for locally collecting data relevant to the patient's respiratory condition when the patient uses the medicament delivery system in response to the sensor communicating breath data thereto;

the patient using the medicament delivery system so that (i) the patient receives a dose of the medicament, and (ii) the patient electronic data collection system locally collects data relevant to the patient's medical condition in electronic form in response to the sensor communicating breath data thereto;

wirelessly communicating with an endpoint to a remote network computer system and transferring said data relevant to the patient's medical condition to said remote network computer system;

permitting authorized user access to the data relevant to the patient's medical condition on the remote network computer system via a secure access gateway in response to a user authorization command; and

varying the dose of medicament to be delivered by the medicament delivery system to the patient in response to data received by the medicament delivery system from the network computer system.

48-52. (Cancelled)

53. (Previously presented) A method according to Claim 47, comprising permitting different levels of access to the data to different authorized users.

54-66. (Cancelled).

67. (Previously presented) A system for delivery of respirable medicament and the remote assessment of a patient's respiratory condition comprising

a network computer system having specifiable network addresses;

remote from said network computer system, a patient electronic data collection system for locally collecting data relevant to the patient's respiratory condition responsive to a sensor of the system which is able to sense the breath of a patient and communicate breath data to the patient electronic data collection system;

a communicator for wirelessly communicating with an endpoint to said network computer system to enable two-way transfer of data between the network computer system and the patient electronic data collection system including transfer of said data relevant to the patient's respiratory condition which includes a patient identifier from the system to the network computer system; and

a secure access gateway permitting access to the data relevant to the patient's respiratory condition on the network computer system in response to a user authorisation command,

wherein the patient electronic data collection system forms part of a medicament delivery system that is arranged to provide respirable delivery of a dose of medicament to the patient, that is arranged to vary the dose of medicament deliverable to the patient in response to data received from the network computer system and is arranged to collect data when the patient uses the medicament delivery system,

and wherein a patient-remote datasource is made available to the network computer system such that information relating to changes to prescription details is transferable thereto.

68-72. (Cancelled).

73. (Previously presented) A system according to claim 1, wherein the communicator is comprised in the medicament delivery system.

74. (Previously presented) A system according to claim 73, wherein the communicator is integral with the patient electronic data collection system.

75. (Previously presented) A system according to claim 1, wherein the medicament delivery system is a hand-held inhaler device.

76. (Previously presented) A system according to claim 75, wherein the device is a metered dose inhaler comprising an aerosol container in which medicament is contained.

77. (Previously presented) A method according to claim 47, wherein said wireless communication is carried out with a communicator which is comprised in the medicament delivery system.

78. (Previously presented) A system according to claim 77, wherein the communicator is integral with the patient electronic data collection system.

79. (Previously presented) A system according to claim 47, wherein the medicament delivery system is a hand-held inhaler device.

80. (Previously presented) A system according to claim 79, wherein the device is a metered dose inhaler comprising an aerosol container in which medicament is contained.